1600

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/009,472B

CRF Edit Date: 1/23/04

Edited by: AR

ENTERED

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

✓ Deleted: ✓ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

_____

___ Moved responses to same line as heading/numeric identifier, specifically:

_____

___ Other:

_____

_____

_____

Revised 09/09/2003

1600

RAW SEQUENCE LISTING DATE: 01/23/2004
PATENT APPLICATION: **US/10/009,472B** TIME: 15:45:15

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01232004\J009472B.raw**

```
      5 <110> APPLICANT: Lam, Eric
      6       del Pozo, Olga
      8 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DETECTION OF ACTIVE
PROTEASES
     10 <130> FILE REFERENCE: RU-0170
     12 <140> CURRENT APPLICATION NUMBER: US 10/009,472B
     13 <141> CURRENT FILING DATE: 2002-03-29
     15 <150> PRIOR APPLICATION NUMBER: PCT/US00/11893
     16 <151> PRIOR FILING DATE: 2000-05-02
     18 <150> PRIOR APPLICATION NUMBER: US 60/132,358
     19 <151> PRIOR FILING DATE: 1999-05-04
     21 <160> NUMBER OF SEQ ID NOS: 24
     23 <170> SOFTWARE: PatentIn version 3.1
     25 <210> SEQ ID NO: 1
     26 <211> LENGTH: 5
     27 <212> TYPE: PRT
     28 <213> ORGANISM: Artificial Sequence
     30 <220> FEATURE:
     31 <223> OTHER INFORMATION: synthetic sequence; caspase-1 cleavage domain
     33 <220> FEATURE:
     34 <221> NAME/KEY: MISC_FEATURE
     35 <222> LOCATION: (5)..(5)
     36 <223> OTHER INFORMATION: "Xaa" represents any amino acid
     39 <400> SEQUENCE: 1
W--> 41 Tyr Val Ala Asp Xaa
     42 1               5
     45 <210> SEQ ID NO: 2
     46 <211> LENGTH: 6
     47 <212> TYPE: PRT
     48 <213> ORGANISM: Artificial Sequence
     50 <220> FEATURE:
     51 <223> OTHER INFORMATION: synthetic sequence; caspase-2 cleavage domain
     53 <220> FEATURE:
     54 <221> NAME/KEY: MISC_FEATURE
     55 <222> LOCATION: (6)..(6)
     56 <223> OTHER INFORMATION: "Xaa" represents any amino acid
     60 <400> SEQUENCE: 2
W--> 62 Val Asp Val Ala Asp Xaa
     63 1               5
     66 <210> SEQ ID NO: 3
     67 <211> LENGTH: 5
     68 <212> TYPE: PRT
     69 <213> ORGANISM: Artificial Sequence
     71 <220> FEATURE:
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RAW SEQUENCE LISTING DATE: 01/23/2004
PATENT APPLICATION: **US/10/009,472B** TIME: 15:45:15

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01232004\J009472B.raw**

72 <223> OTHER INFORMATION: synthetic sequence; caspase-3 cleavage domain
74 <220> FEATURE:
75 <221> NAME/KEY: MISC_FEATURE
76 <222> LOCATION: (5)..(5)
77 <223> OTHER INFORMATION: "Xaa" represents any amino acid
80 <400> SEQUENCE: 3
W--> 82 Asp Glu Val Asp Xaa
83 1 5
86 <210> SEQ ID NO: 4
87 <211> LENGTH: 5
88 <212> TYPE: PRT
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: synthetic sequence; caspase-4 cleavage domain
94 <220> FEATURE:
95 <221> NAME/KEY: MISC_FEATURE
96 <222> LOCATION: (5)..(5)
97 <223> OTHER INFORMATION: "Xaa" represents any amino acid
100 <400> SEQUENCE: 4
W--> 102 Leu Glu Val Asp Xaa
103 1 5
106 <210> SEQ ID NO: 5
107 <211> LENGTH: 5
108 <212> TYPE: PRT
109 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: synthetic sequence; caspase-5 cleavage domain
114 <220> FEATURE:
115 <221> NAME/KEY: MISC_FEATURE
116 <222> LOCATION: (5)..(5)
117 <223> OTHER INFORMATION: "Xaa" represents any amino acid
120 <400> SEQUENCE: 5
W--> 122 Trp Glu His Asp Xaa
123 1 5
126 <210> SEQ ID NO: 6
127 <211> LENGTH: 5
128 <212> TYPE: PRT
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: synthetic sequence; caspase-6 cleavage domain
134 <220> FEATURE:
135 <221> NAME/KEY: MISC_FEATURE
136 <222> LOCATION: (5)..(5)
137 <223> OTHER INFORMATION: "Xaa" represents any amino acid
140 <400> SEQUENCE: 6
W--> 142 Val Glu Ile Asp Xaa
143 1 5
146 <210> SEQ ID NO: 7
147 <211> LENGTH: 6

RAW SEQUENCE LISTING DATE: 01/23/2004
PATENT APPLICATION: **US/10/009,472B** TIME: 15:45:15

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01232004\J009472B.raw**

148 <212> TYPE: PRT
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: synthetic sequence; caspase-7 cleavage domain
154 <220> FEATURE:
155 <221> NAME/KEY: MISC_FEATURE
156 <222> LOCATION: (6)..(6)
157 <223> OTHER INFORMATION: "Xaa" represents any amino acid
160 <400> SEQUENCE: 7
W--> 162 Val Asp Gln Val Asp Xaa
163 1 5
166 <210> SEQ ID NO: 8
167 <211> LENGTH: 5
168 <212> TYPE: PRT
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: synthetic sequence; caspase-8 cleavage domain
174 <220> FEATURE:
175 <221> NAME/KEY: MISC_FEATURE
176 <222> LOCATION: (5)..(5)
177 <223> OTHER INFORMATION: "Xaa" represents any amino acid
180 <400> SEQUENCE: 8
W--> 182 Ile Glu Thr Asp Xaa
183 1 5
186 <210> SEQ ID NO: 9
187 <211> LENGTH: 5
188 <212> TYPE: PRT
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: synthetic sequence; caspase-9 cleavage domain
194 <220> FEATURE:
195 <221> NAME/KEY: MISC_FEATURE
196 <222> LOCATION: (5)..(5)
197 <223> OTHER INFORMATION: "Xaa" represents any amino acid
200 <400> SEQUENCE: 9
W--> 202 Leu Glu His Asp Xaa
203 1 5
206 <210> SEQ ID NO: 10
207 <211> LENGTH: 4
208 <212> TYPE: PRT
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: synthetic sequence; calpain cleavage domain
214 <220> FEATURE:
215 <221> NAME/KEY: MISC_FEATURE
216 <222> LOCATION: (4)..(4)
217 <223> OTHER INFORMATION: "Xaa" represents any amino acid
220 <400> SEQUENCE: 10
W--> 222 Val Leu Lys Xaa

RAW SEQUENCE LISTING DATE: 01/23/2004
PATENT APPLICATION: US/10/009,472B TIME: 15:45:15

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\01232004\J009472B.raw

223 1
226 <210> SEQ ID NO: 11
227 <211> LENGTH: 5
228 <212> TYPE: PRT
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: synthetic sequence; cathepsin-G cleavage domain
234 <220> FEATURE:
235 <221> NAME/KEY: MISC_FEATURE
236 <222> LOCATION: (5)..(5)
237 <223> OTHER INFORMATION: "Xaa" represents any amino acid
240 <400> SEQUENCE: 11
W--> 242 **Ala Val Pro Phe Xaa**
243 1 5
246 <210> SEQ ID NO: 12
247 <211> LENGTH: 8
248 <212> TYPE: PRT
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: synthetic sequence; collagenase cleavage domain
254 <220> FEATURE:
255 <221> NAME/KEY: MISC_FEATURE
256 <222> LOCATION: (8)..(8)
257 <223> OTHER INFORMATION: "Xaa" represents any amino acid
260 <400> SEQUENCE: 12
W--> 262 **Pro Gln Gly Ile Ala Gly Gln Xaa**
263 1 5
266 <210> SEQ ID NO: 13
267 <211> LENGTH: 5
268 <212> TYPE: PRT
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: synthetic sequence; elastase I cleavage domain
274 <220> FEATURE:
275 <221> NAME/KEY: MISC_FEATURE
276 <222> LOCATION: (5)..(5)
277 <223> OTHER INFORMATION: "Xaa" represents any amino acid
280 <400> SEQUENCE: 13
W--> 282 **Ala Ala Pro Val Xaa**
283 1 5
286 <210> SEQ ID NO: 14
287 <211> LENGTH: 5
288 <212> TYPE: PRT
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: synthetic sequence; elastase II cleavage domain
294 <220> FEATURE:
295 <221> NAME/KEY: MISC_FEATURE
296 <222> LOCATION: (5)..(5)

RAW SEQUENCE LISTING DATE: 01/23/2004
PATENT APPLICATION: **US/10/009,472B** TIME: 15:45:15

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01232004\J009472B.raw**

297 <223> OTHER INFORMATION: "Xaa" represents any amino acid
300 <400> SEQUENCE: 14
W--> **302 Ala Ala Pro Ala Xaa**
303 1 5
306 <210> SEQ ID NO: 15
307 <211> LENGTH: 4
308 <212> TYPE: PRT
309 <213> ORGANISM: Artificial Sequence
311 <220> FEATURE:
312 <223> OTHER INFORMATION: synthetic sequence; granzyme B cleavage domain
314 <220> FEATURE:
315 <221> NAME/KEY: MISC_FEATURE
316 <222> LOCATION: (4)..(4)
317 <223> OTHER INFORMATION: "Xaa" represents any amino acid
320 <400> SEQUENCE: 15
W--> **322 Ala Ala Asp Xaa**
323 1
326 <210> SEQ ID NO: 16
327 <211> LENGTH: 9
328 <212> TYPE: PRT
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:
332 <223> OTHER INFORMATION: synthetic sequence; MMP-1 cleavage domain
334 <220> FEATURE:
335 <221> NAME/KEY: VARIANT
336 <222> LOCATION: (8)..(8)
337 <223> OTHER INFORMATION: d Arginine
340 <220> FEATURE:
341 <221> NAME/KEY: MISC_FEATURE
342 <222> LOCATION: (9)..(9)
343 <223> OTHER INFORMATION: "Xaa" represents any amino acid
346 <400> SEQUENCE: 16
W--> **348 Pro Gln Gly Ile Ala Gly Gln Arg Xaa**
349 1 5
352 <210> SEQ ID NO: 17
353 <211> LENGTH: 4
354 <212> TYPE: PRT
355 <213> ORGANISM: Artificial Sequence
357 <220> FEATURE:
358 <223> OTHER INFORMATION: synthetic sequence; kallicrein cleavage domain
360 <220> FEATURE:
361 <221> NAME/KEY: MISC_FEATURE
362 <222> LOCATION: (4)..(4)
363 <223> OTHER INFORMATION: "Xaa" represents any amino acid
366 <400> SEQUENCE: 17
W--> **368 Pro Phe Arg Xaa**
369 1
372 <210> SEQ ID NO: 18
373 <211> LENGTH: 7

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/23/2004
PATENT APPLICATION: **US/10/009,472B** TIME: 15:45:16

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01232004\J009472B.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 5
Seq#:2; Xaa Pos. 6
Seq#:3; Xaa Pos. 5
Seq#:4; Xaa Pos. 5
Seq#:5; Xaa Pos. 5
Seq#:6; Xaa Pos. 5
Seq#:7; Xaa Pos. 6
Seq#:8; Xaa Pos. 5
Seq#:9; Xaa Pos. 5
Seq#:10; Xaa Pos. 4
Seq#:11; Xaa Pos. 5
Seq#:12; Xaa Pos. 8
Seq#:13; Xaa Pos. 5
Seq#:14; Xaa Pos. 5
Seq#:15; Xaa Pos. 4
Seq#:16; Xaa Pos. 9
Seq#:17; Xaa Pos. 4
Seq#:18; Xaa Pos. 7
Seq#:19; Xaa Pos. 9
Seq#:20; Xaa Pos. 4

VERIFICATION SUMMARY DATE: 01/23/2004
PATENT APPLICATION: **US/10/009,472B** TIME: 15:45:16

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01232004\J009472B.raw**

L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0

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RAW SEQUENCE LISTING DATE: 01/21/2004
PATENT APPLICATION: US/10/009,472B TIME: 15:07:32

Input Set : A:\ru-170.seq.txt
Output Set: N:\CRF4\01202004\J009472B.raw

```
  5 <110> APPLICANT: Lam, Eric
  6       del Pozo, Olga
  8 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DETECTION OF ACTIVE PROTEASES
 10 <130> FILE REFERENCE: RU-0170
 12 <140> CURRENT APPLICATION NUMBER: US 10/009,472B
 13 <141> CURRENT FILING DATE: 2002-03-29
 15 <150> PRIOR APPLICATION NUMBER: PCT/US00/11893
 16 <151> PRIOR FILING DATE: 2000-05-02
 18 <150> PRIOR APPLICATION NUMBER: US 60/132,358
 19 <151> PRIOR FILING DATE: 1999-05-04
 21 <160> NUMBER OF SEQ ID NOS: 24
 23 <170> SOFTWARE: PatentIn version 3.1
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Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

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474 <210> SEQ ID NO: 24
475 <211> LENGTH: 6
476 <212> TYPE: PRT
477 <213> ORGANISM: Artificial Sequence
479 <220> FEATURE:
480 <223> OTHER INFORMATION: synthetic sequence; caspase-1 cleavage domain
482 <400> SEQUENCE: 24
484 Met Tyr Val Ala Asp Gly
485 1               5
E--> 491 2
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VERIFICATION SUMMARY DATE: 01/21/2004
PATENT APPLICATION: **US/10/009,472B** TIME: 15:07:33

Input Set : **A:\ru-170.seq.txt**
Output Set: **N:\CRF4\01202004\J009472B.raw**

L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:491 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:24